

# NAVMAN

510

635

650



iCN Series  
In-Car GPS  
Transferable Navigation



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Navman: a leader in GPS navigation technology.  
And more.



Established in New Zealand in 1988, Navman researches, designs and builds critical navigation technology, including GPS navigation devices, commercial fleet tracking systems and marine electronics instruments.



Employing over 500 staff and with its own manufacturing facilities, Navman products are researched and developed in-house, resulting in high quality navigation systems that are easy to use.

With offices all over the world, Navman is a global GPS company. In Europe, teams of dedicated individuals provide localised high quality sales and technical support to its ever growing user base.

Navman is now an integral part of the Brunswick Corporation, one of the world's longest established global companies. Navman is a rapidly expanding company and will continue to grow and provide world-leading critical navigation systems.





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## GPS technology explained.

The Global Positioning System (GPS) is a satellite-based navigation system made up of a network of satellites placed into orbit. GPS works in any weather conditions, anywhere in the world, 24 hours a day. There are no subscription fees or setup charges to use GPS.

GPS satellites circle the earth in a very precise orbit and transmit signal information to earth. GPS receivers take this information to calculate the user's exact location. This location is then passed on to the software, which displays in real time the maps relevant to the location using the map data stored on the navigation system.

Once the user's position has been determined, the GPS unit calculates other information, such as speed, bearing, track, trip distance, distance to destination and more.

Today's GPS receivers with parallel multi-channel design are extremely accurate. A GPS with a 12 channel parallel receiver is quick to lock onto satellites when first turned on and maintains a strong signal whilst driving.



# SmartST™ Version 3

## The power behind the iCN Series

Included with every iCN is the latest generation of Navman's navigation software, SmartST Version 3. Packed with new features and new map data, it is designed to make your journey as plain and simple as possible. Just see for yourself.



Variable 3D map view with great colour maps



Detailed 2D complete street level navigation showing traffic directional flow and one-way streets.



Turn-by-Turn navigation screen incorporating 2D mini map and next manoeuvre icon



Instruction Summary page detailing the next four manoeuvres en-route



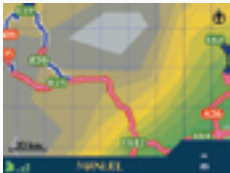
Multi-Stop Route planning: now plan a trip from A to B, via C, D – choose from 12 stopovers



European Major Road Network coverage allowing continuous navigation through W. Europe



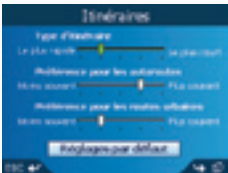
Enter destination with the aid of a 5 character postcode search



High-level topographic style maps, which alter colour as you change height above sea level



Point of Interest Import and route to a nearest POI



Improved Routing (preference scale for use of motorways v local roads)



Tens of thousands of POIs preloaded to the unit














Enhanced next manoeuvre icon



## Main features

Below are some of the key features of SmartST Version 3. All these, and many others, are included as standard with the iCN 510, the iCN 635 and the iCN 650.

For more information on SmartST Version 3, please visit [www.navman-europe.com](http://www.navman-europe.com).

Feature	Description
Back-on-Track™	Automatically recalculates route if you take a wrong turn or deviate from the planned itinerary.
Voice instructions	Before and when a manoeuvre is required, clear, male or female spoken instructions are provided.
View modes	Night or day screen modes can be selected according to your traveling conditions, variety of colour schemes available.
Display	Map Display only, Map and Navigation Instructions or Key Instructions display screen only.
Destination input	By an address to a door, a street name, an intersection or to a selected Point of Interest.
Visual Guidance	Automatic zooming, up to 200 miles. Overlay arrows shows exact turn to take.
Favourites	Navigate to your Home, Office, Restaurant etc... without having to enter the same details again.
3D Maps	Vivid colour 3D map display, showing street level road details, parks, lakes and rivers.
Avoid Area	Route calculation with avoidable user selected areas. Avoid traffic hotspots.
Postcode Search	Enter destination with the aid of a 5 character postcode search.
Multi-stop routes	 Navigate a journey via multiple destinations – now navigate from A to B via C, D, E...
Major roads view	 Continuous navigation on major European road network.
Points of Interest importing	 Create your own points of interest (My POIs) using the SmartST™ Desktop Editor on your computer
Active Point of Interest	 Proximity alarm can be used to alert you when approaching any personal Point of Interest (My POI's)
Nearest Point of Interest	 Select the nearest Point of Interest to your current location (service station, hospital, restaurant, cash machine etc.). Low on fuel ? Navigate to the nearest service station.
Up to date maps	  Latest Summer 2004 Release Map Data from TeleAtlas
Topographic maps	 High Level Topographic style maps giving a more realistic view of your location
Mini-map	 2D mini-map on the turn-by-turn navigation screen and icons, making navigation even easier.
Improved routing	 Improved routing options to include routing via ferries, and percentage preference scale
Next manoeuvre icons	 Improved next manoeuvre arrow icon with distance to manoeuvre incorporated



## iCN 510

### Mobile Navigation

The iCN 510 is our smallest, sleekest, transferable mobile GPS navigation solution. Not only does it include all the features of SmartST Version 3 navigation software, such as active and nearest Points of Interest and multiple-route planning, it is also packed with hardware features normally only found in much larger devices.

Its 3.5 inch colour landscape TFT touch-screen displays bright coloured 3D maps that can be easily read whatever the conditions. The built-in 12 channel GPS receiver detects your position with superior accuracy, and the crystal clear low profile speaker provides precise voice instructions. Its touch-screen and multi-function keypad enables you to control operations with unprecedented ease of use.

And because it is part of the Drive-Away™ family of products, it works straight out of the box : simply plug it in, enter your destination and drive.

Or walk.

That's right. Not only will your iCN 510 guide you on the road, this lightweight battery-powered GPS will also help you with the last part of your journey. Its street-level maps will guide you by foot through busy city streets to your final destination.

With an iCN 510, the last mile need no longer be the hardest mile.





# icN 510

## features & benefits

### Transferable

Use your GPS in any vehicle. Transfers from vehicle to vehicle in seconds.

### Mobile

Lightweight and battery operated. Designed to work in and out of the car.

### Bright 3.5" TFT touch screen

Displays bright colour 3D maps with sharp details.

### Expandable

Memory slot allows you to add map data as and when required.

### Drive-Away™

Works straight out of the box. Just drive away.

### SmartST™ Version 3

All the great features of our high-end navigation software, including Door to door navigation, Back-on-Track™, Voice guidance, Active and Nearest Points of Interest and Multiple-stop route planning (see SmartST page for details).

### Up to date map data

Latest 2004 TeleAtlas map data.

### Street level maps

of Great Britain preinstalled on memory card (Ireland supplied on CD).

### Major European roads

Continuous navigation from one European city to another via major roads (supplied on CD).

### Class leading maps

Full colour 3D detailed maps showing street names, town names, road classification, forests, parks, lakes and rivers.



# icN 510

## Technical Specifications

### 3.5" Landscape Touch Screen

with crisp display and easy reading of bright coloured maps details

### Compact, mobile, lightweight design

for use in-car or on foot with complete mobility

### SD/MMC slot for map storage

expandable memory to store all the maps you will ever need

### Built in rechargeable battery

for trouble-free everyday usage with 4hrs battery life

### Integrated GPS receiver SirFXTrac™ enabled

12 channel parallel with automatic selection for accurate GPS position

### Multi functional key pads

enabling easy operation of the intuitive graphical user interface

### Integrated low profile speaker

with crystal clear spoken instructions at every turn

### Audio Out port

for connection to earphones or audio system

### Mini-MCX external-antenna port

for optimum reception if your vehicle is fitted with a heated or heat reflective windshield

### USB port

enabling easy connection to any USB PC for upgrading and additional maps

### Infra-red port

for optional remote-control





## iCN 635

### Transferable Navigation

The iCN 635 is a high-quality GPS navigation solution. Not only does it come with our best-selling SmartST Version 3 navigation software, which includes exceptional features such as active and nearest Points of Interest and multiple-route planning, it also boasts an array of enhancements, specifically designed for comfort, speed and ease of use.

The iCN 635 is a totally transferable device that unplugs in seconds and can be used in any vehicle, its magnesium-alloy casing ensuring it withstands even the most demanding users.

For extra visual comfort, its large 3.8 inch landscape TFT automotive-rated colour screen is in a class of its own, providing comfortable reading even in the most difficult conditions.

Of course, it is part of our Drive-Away™ family of products, and works straight out of the box. Plug it in, enter your destination and drive.

The iCN 635, following in the footsteps of our best-selling iCN 630, has earned a reputation of a trusted, solid device, one which provides reliable navigation assistance, year after year.





# ICN 635

## features & benefits

### Transferable

Use your GPS in any vehicle. Transfers from vehicle to vehicle in seconds.

### Magnesium alloy case

Housed in magnesium alloy casing for extra protection.

### Bright 3.8" TFT screen

Wide landscape automotive-rated displaying bright colour 3D maps with unprecedented sharpness.

### More memory

128 MB of internal memory for extra map data storage.

### Drive-Away™

Works straight out of the box. Just drive away.

### SmartST™ Version 3

All the great features of our high-end navigation software, including Door to door navigation, Back-on-Track™, Voice guidance, Active and Nearest Points of Interest and Multiple stop route planing (see SmartST page for details).

### Up to date map data

Latest 2004 TeleAtlas map data.

### Street level maps

of Great Britain preinstalled on memory card (Ireland available on CD).

### Major European roads

Continuous navigation from one European city to another via major roads.

### Class leading maps

Full colour 3D detailed maps showing street names, town names, road classification, forests, parks, lakes and rivers.



# ICN 635

## Technical Specifications

**Large 3.8" Landscape QVGA automotive-rated screen** with crisp display and easy reading of bright coloured maps details

**Solid design with magnesium-alloy casing** for years of trouble-free use in different vehicles

**SD/MMC slot for map storage** expandable memory to store all the maps you will ever need

**USB port** enabling easy connection to any USB PC

**Large memory and fast processor** 128MB Flash Memory for map data storage. Fast processor with Intel Xscale technology for fast and smooth running of navigation software.

**Multi functional key pads** enabling easy operation of the intuitive graphical user interface

**Integrated GPS receiver** 12 channel parallel with automatic selection for accurate GPS position

**Integrated high-quality speaker** with crystal clear spoken instructions at every turn

**MCX external-antenna port** for optimum reception if your vehicle is fitted with a heated or heat reflective windshield



**Infra-red remote control** supplied as standard



## iCN 650

### High-end transferable Pan-European Navigation

The iCN 650 is Navman's top of the range road navigation solution. It boasts all the features of the iCN 635, including a bright, colour, landscape TFT screen, and is the ultimate device for the European traveler.

Inside its aluminium-alloy housing resides a fast 2 Gigabyte hard-disk, containing a huge library of preloaded, up-to-date, street-level maps of no less than 16 Western European countries.

Providing voice, turn-by-turn instructions across most of Western Europe, as well as all the other great features of SmartST Version 3, including Back-on-Track, multiple route planning and extended Points of Interest, the iCN 650 also offers uninterrupted navigation assistance whenever you cross geographic regions.

With its slim-line remote control taking ease-of-use at a new level, this high-end Drive-Away™ GPS solution is the state of the art of navigation devices and offers functionality only found in high-end, non-transferable, dedicated units.

The iCN 650 also happens to be transferable to any vehicle. In seconds.



# iCN 650 features & benefits

## Transferable

Use your GPS in any vehicle. Transfers from vehicle to vehicle in seconds.

## Internal hard drive

Silent, super-fast 2 Gb hard drive preloaded with SmartST™ version 3 and map data

## Magnesium case

Housed in magnesium-alloy casing for extra protection.

## Bright 3.8" TFT screen

Wide landscape automotive-rated displaying bright colour 3D maps with unprecedented sharpness.

## Drive-Away™

Works straight out of the box. Just drive away.

## SmartST™ Version 3

All the great features of our high-end navigation software, including Door to door navigation, Back-on-Track™, Voice guidance, Active and Nearest Points of Interest and Multiple stop route planing (see SmartST page for details).

## Maps of 16 European countries pre-loaded as standard.

Street level maps of Western European countries.

## Class leading maps

Full colour 3D detailed maps showing street names, town names, road classification, forests, parks, lakes and rivers.

## Up to date map data

Latest 2004 TeleAtlas map data.



# iCN 650 Technical Specifications

**Large 3.8" Landscape QVGA automotive-rated screen** with sharp crisp display and easy reading of bright coloured maps details

**Internal hard drive with maps of 16 European countries** including street level maps for detailed, uninterrupted navigation throughout Western Europe.

**Multi functional key pads** enabling easy operation of the intuitive graphical user interface

**Integrated GPS receiver** 12 channel parallel with automatic selection for accurate GPS position

**Solid design with magnesium-alloy casing** for years of trouble-free use in different vehicles

**Integrated high-quality speaker** with crystal clear spoken instructions at every turn



**USB port** enabling easy connection to any USB PC

**Fast processor** Fast processor with Intel Xscale technology.

for optimum reception if your vehicle is fitted with a heated or heat reflective windshield




**MCX external antenna port**



**Infra-red remote control** supplied as standard



Take a closer look at the iCN Series.  
 The only real question remaining is, which one do you want ?

iCN Series Comparison Chart	iCN 510	iCN 635	iCN 650
			
Transferable	•	•	•
SmartST Version 3	complete feature set (see SmartST page) standard in all models		
Screen size	3.5"	3.8"	3.8"
Screen resolution (pixels)	320x240	320x240	320x240
External power	•	•	•
SD and MMC expansion slot	•	•	-
Country maps supplied	UK and Ireland	UK and Ireland	Western Europe 16 countries
Map storage	memory card	memory card	2 GB Hard disk
Remote control	optional	standard	standard
Mains and 12V vehicle power	•	•	•
Internal battery	•	-	-
Map memory on unit	-	128 MB	hard drive
GPS channels	12 parallel	12 parallel	12 parallel
Accuracy of GPS position	better than 5m 95% of the time under optimum conditions		
Update rate	once every second once fix is established		
Dimensions (lenght, height, depth)	121x71x26mm	163x75x36mm	163x75x42mm
Weight	160g	330g	365g

**iCN 510**

iCN 510 unit with integral GPS Receiver

SmartST Version 3 In-Car Digital Navigation Software

Memory card including maps of local country preinstalled

CD Set including SmartST application and map data

12V DC vehicle power adapter

100/240V AC mains power pack for in-door use

USB cable for map and application downloading from a PC

Protective carry case

Vehicle windshield mounting bracket

Infra-red support (remote available as accessory)

**iCN 635**

iCN 635 with integral GPS Receiver

SmartST Version 3 In-Car Digital Navigation Software

Memory card including maps of local country preinstalled

CD Set including SmartST application and European map data with unlock key for local country only (additional keys for additional countries available)

12V DC vehicle power adapter

100/240V AC mains power pack for in-door use

USB cable for map and application downloading from a PC

Protective carry case and screen cleaner

Vehicle windshield and dashboard mounting bracket

Infra-red remote control

**iCN 650**

iCN 650 unit with integral GPS Receiver

SmartST Version 3 In-Car Digital Navigation Software 4 CD set with application and Map data for western Europe

2.0GB hard drive with street level maps of Western Europe preinstalled

12V DC vehicle power adapter

100/240V AC mains power pack for in-door use

USB cable for map and application downloading from a PC

Protective carry case and screen cleaner

Vehicle windshield and dashboard mounting bracket

Infra-red Remote control



## iCN Series Accessories

Below are some of the accessories available to enhance your navigation experience.



### **In-Vehicle mounting kit**

For use in a second car. Comes complete with bracket and suction cup for a steady mount.



### **iCN in car power cable**

For use in a second car. Provides power to the iCN unit.



### **Remote control (for the iCN 510)**

Infra-red remote control for the iCN 510 for further ease of operation.



### **MCX external antenna for the iCN 600 series**

For vehicles that have heated or heat reflective windshields. This external antenna is supplied with a 5m cable and connects to your iCN via its MCX connector.



### **Mini-external antenna for the iCN 510**

For vehicles that have heated or heat reflective windshields. This external antenna is supplied with a 5m cable and connects to your iCN 510 via its mini MCX connector.

## iCN Series Map Upgrades

You can upgrade your regional map data to the full pan-European set, or purchase additional maps, such as those of the U.S.A. or Australia.

To purchase any of the above accessories or map upgrades, please visit [www.navman-europe.com](http://www.navman-europe.com)





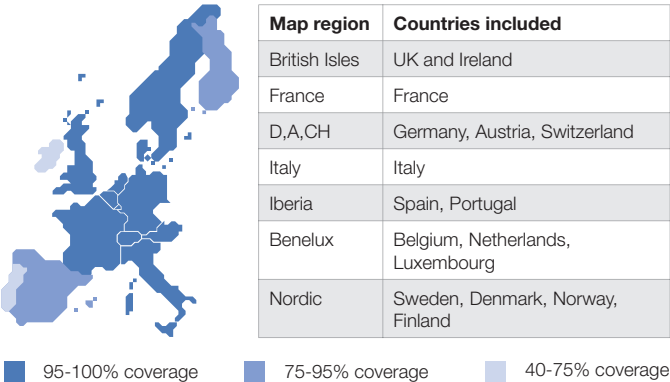
# iCN Series

## Map Coverage

We've covered a lot of ground here. And so do our maps.

With the very latest Digital Map Data from TeleAtlas, our huge street-level map library covers no less than 16 Western European countries. Although coverage varies from country to country (see map below), most have a 95-100% coverage.

The maps included with your iCN Series navigation system vary according to the model and region. iCN 510 and 635 models come with pre-installed regional maps, as detailed in the Map Region table below. The iCN 650 comes with maps of all 16 European countries, pre-installed on its 2GB internal hard disk.



Tele Atlas maps provide a wealth of information, such as Points of Interest, House numbers, and much more. They include 6.5 million miles of streets and roads in Europe, 365 million inhabitants, 68 000 Municipalities and 310 million house numbers.

MAP  
COVERAGE  
&  
UPGRADES





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### Europe

Navman Europe Ltd  
4G Gatwick House  
Peeks Brook Lane  
Horley, Surrey  
RH6 9ST  
United Kingdom

Tel +44(0)1293 780500  
Fax +44(0)1293 782065

[www.navman-europe.com](http://www.navman-europe.com)  
[support@navman-europe.com](mailto:support@navman-europe.com)

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### Headquarters

Navman NZ Ltd  
13 -17 Kawana Street  
PO Box 68, 155 Newton  
Auckland  
New Zealand

[www.navman.com](http://www.navman.com)  
[support@navman.com](mailto:support@navman.com)

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